

AMENDMENTS TO THE SPECIFICATION:

Page 12, replace the paragraph beginning on line 17 with the following amended paragraph:

--FIG. 7 is a diagram illustrative of a variation in ~~differential gain~~ threshold current density of the laser device over the standard deviation $[\sigma_g]$ of the E_g "microscopic fluctuation" of the band gap energy profile, ~~wherein the differential gain is theoretically calculated~~ for a single facet HR-coated laser device.--